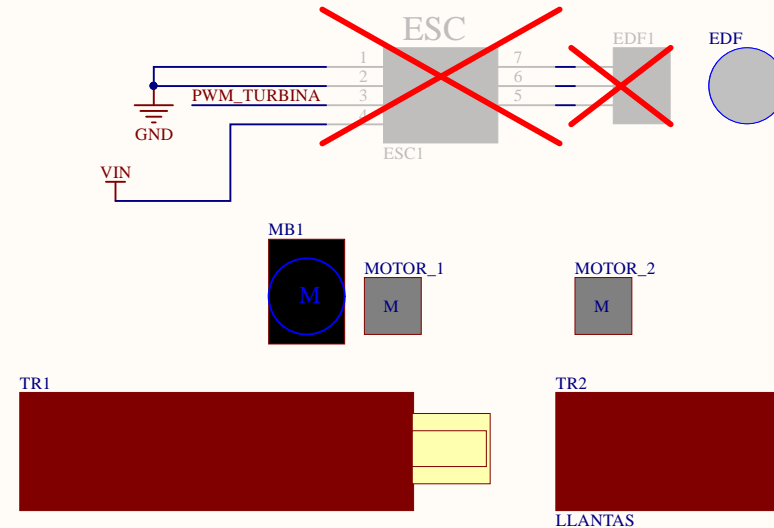
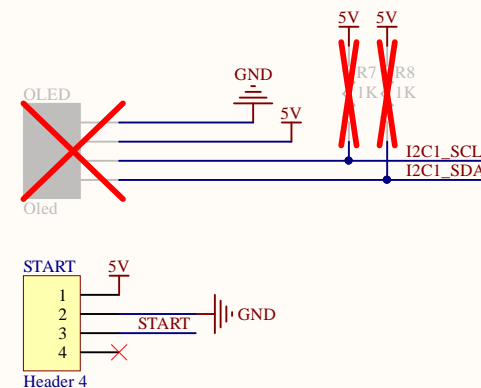
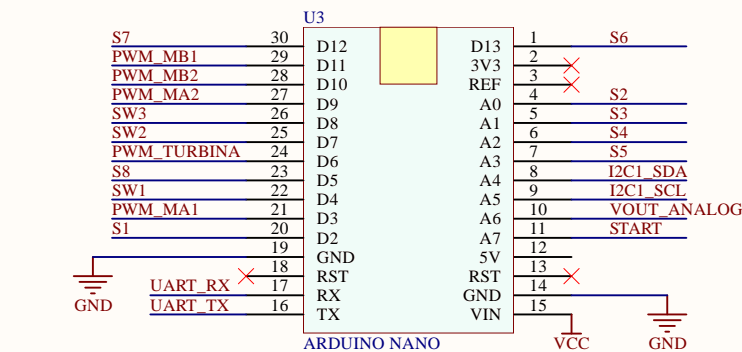
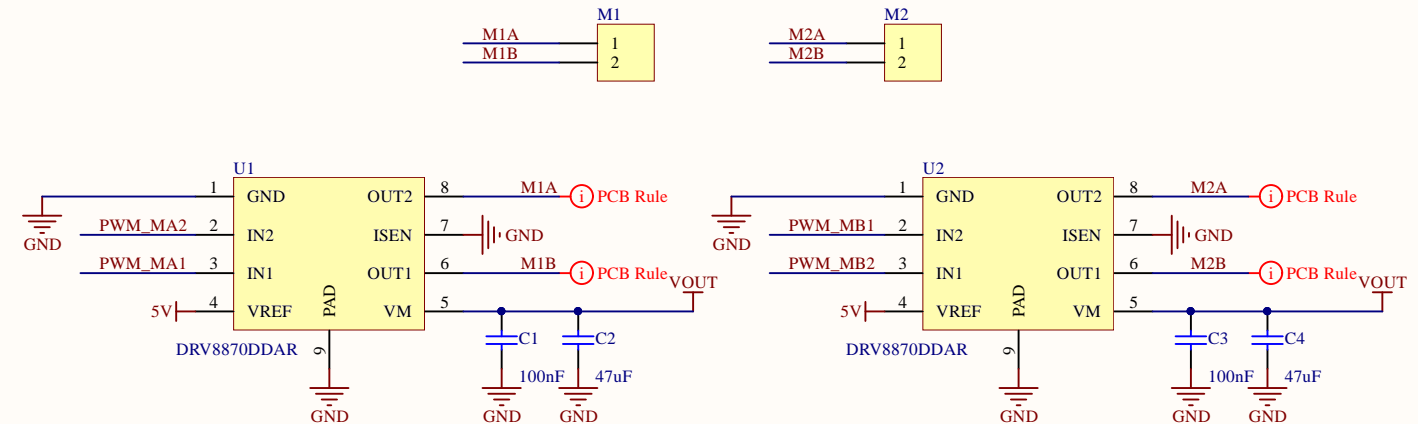
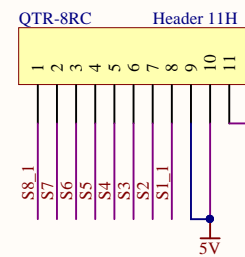
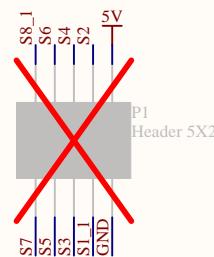
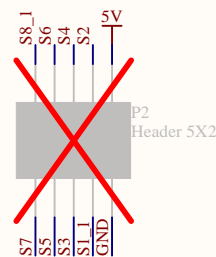


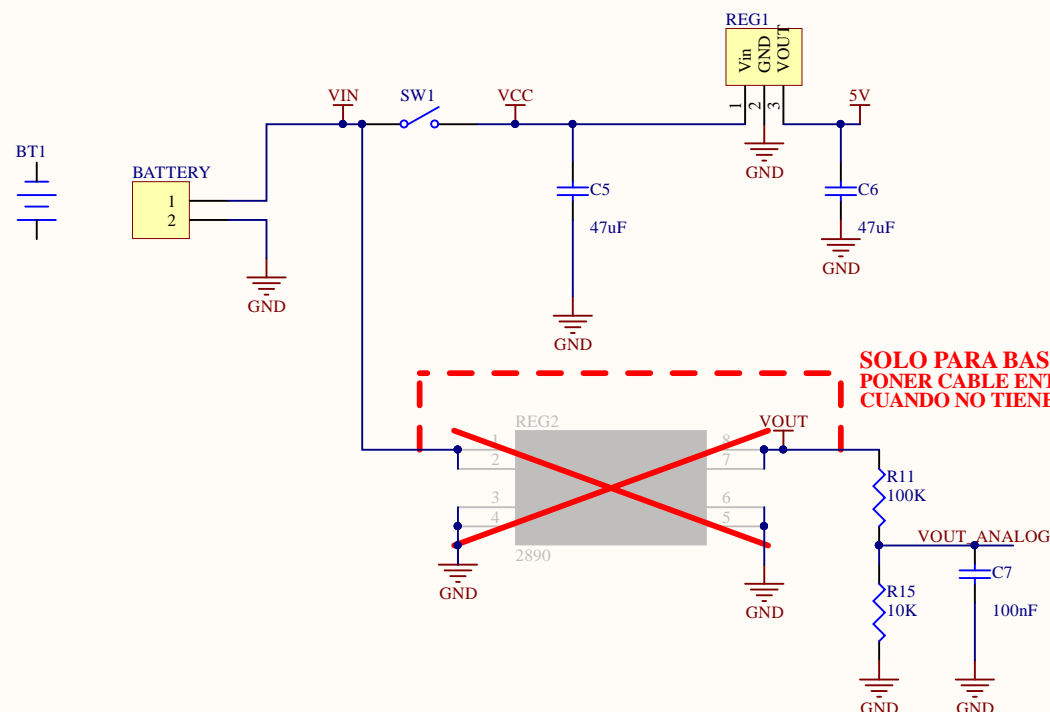
BASICO

RACHINGENIERIA_VELOCISTA_X.PrjPcb

NOTA: LOS ELEMENTOS CON CRUZ NO SE INSTALAN

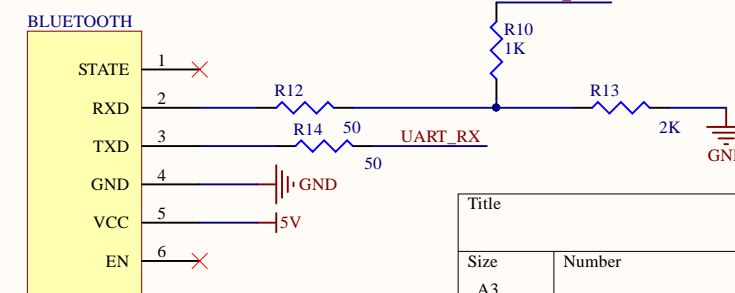
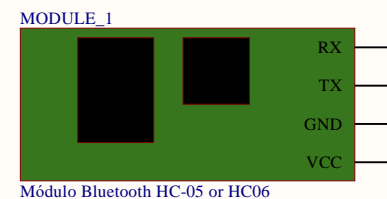


NOTA: REMOVER LED D13 DE ARDUINO
ESTE PIN ES USADO PARA LOS SENSORES

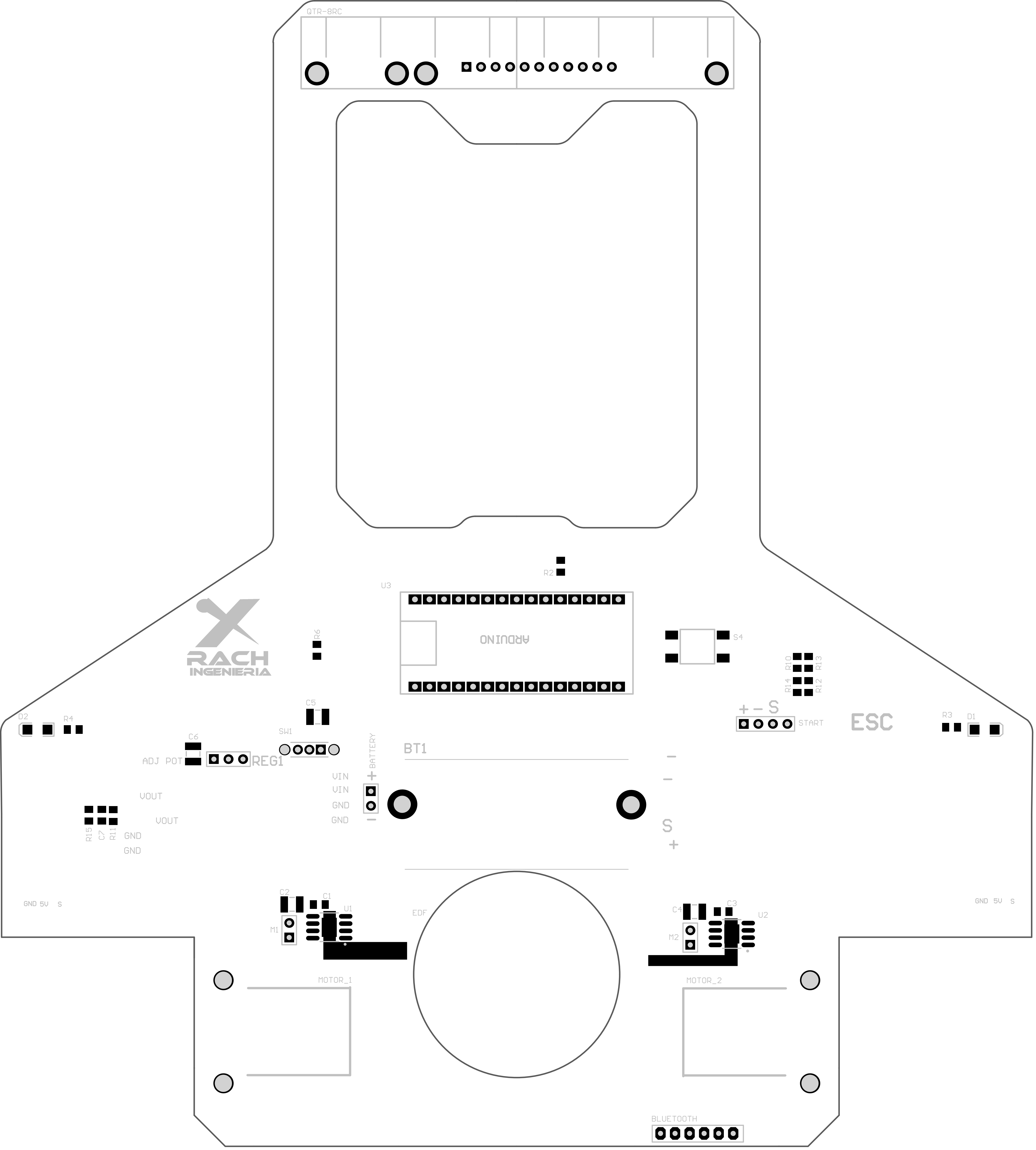


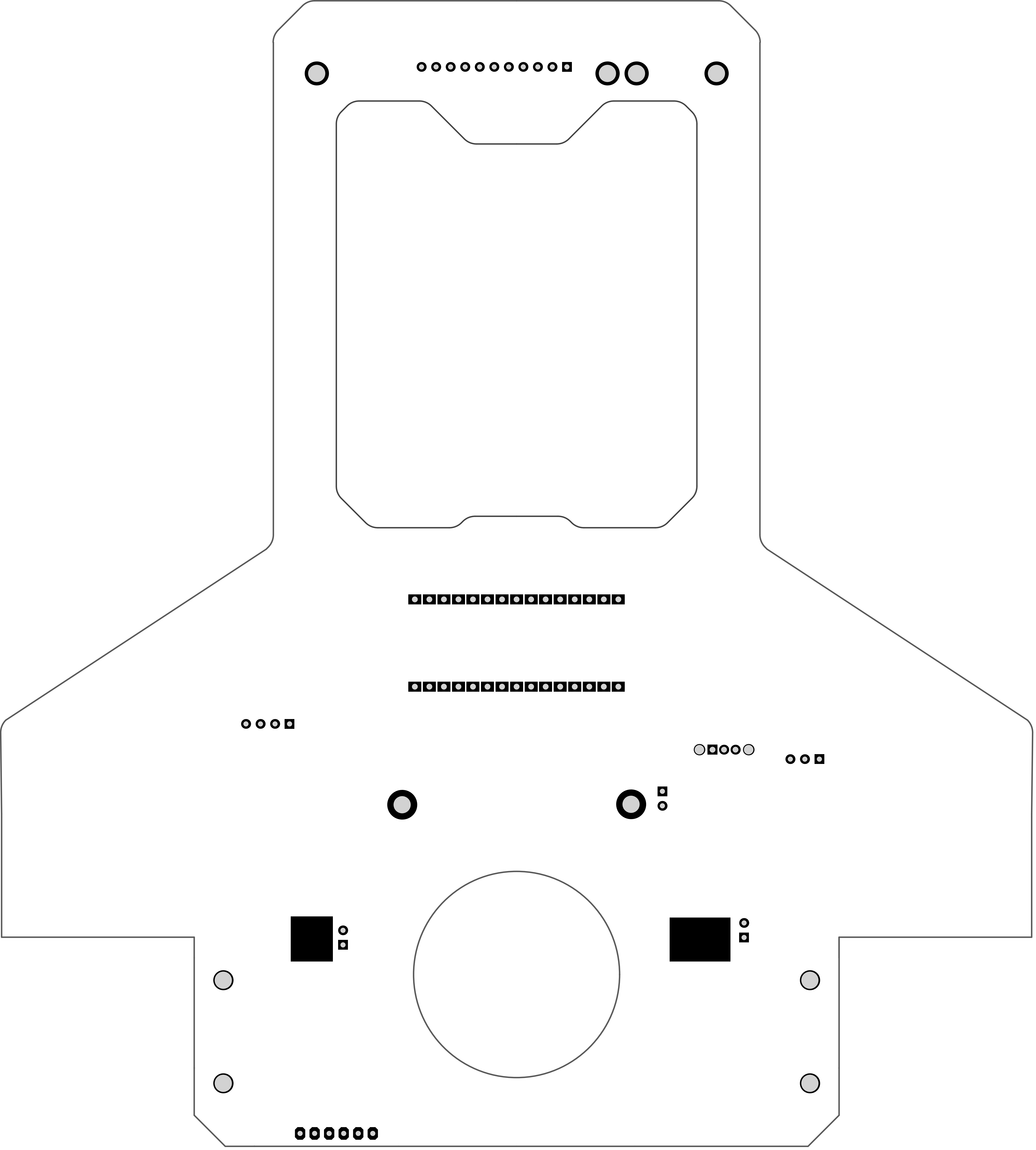
SOLO PARA BASICO (NO AVANZADO)
PONER CABLE ENTRE ENTRADA Y SALIDA
CUANDO NO TIENE ELEVADOR

HC06 o HC05
CONFIGURADO A 115200PBS

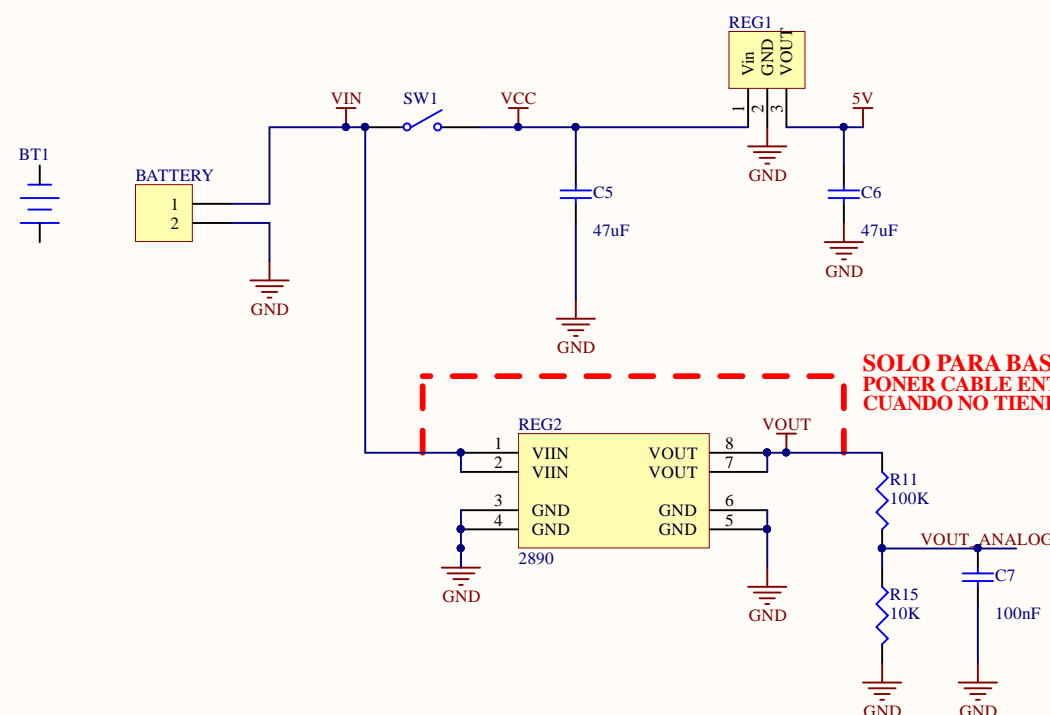
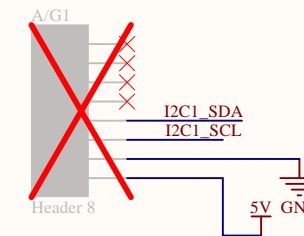
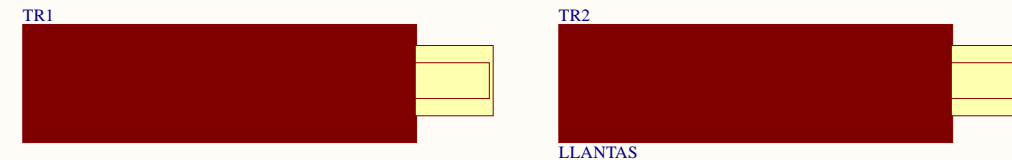
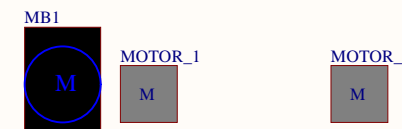
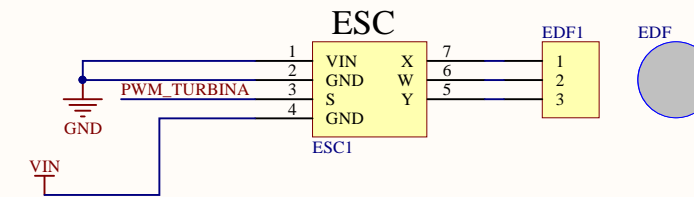
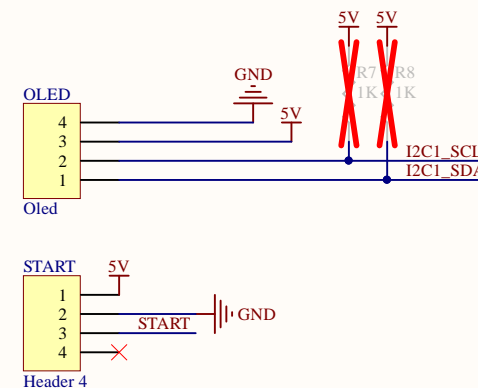
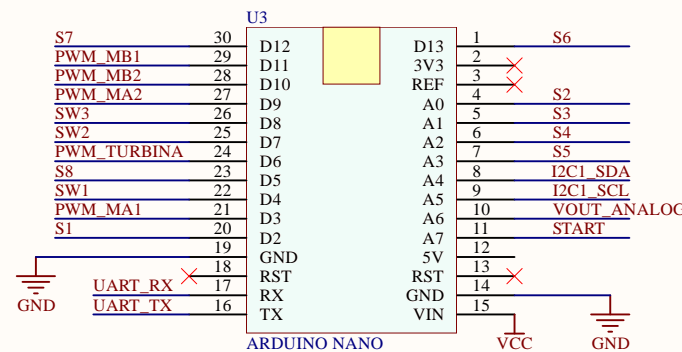
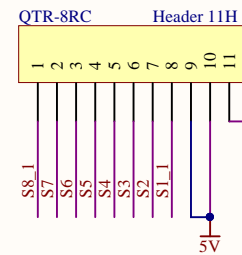
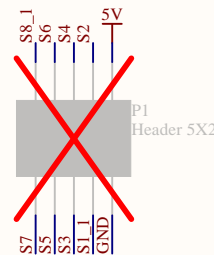
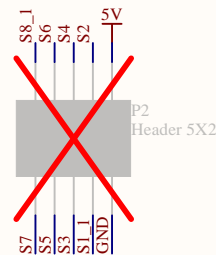
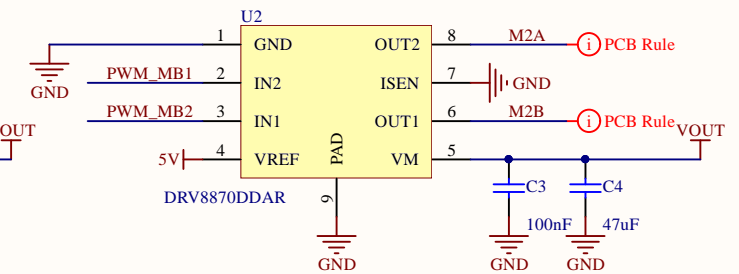
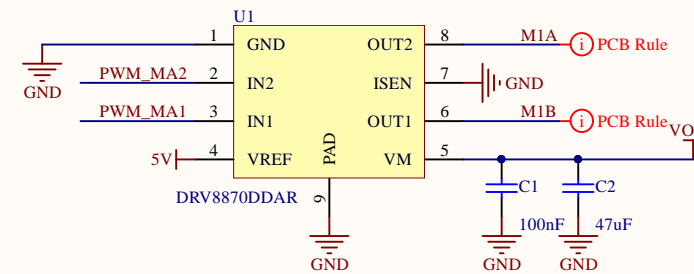
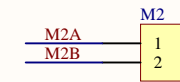
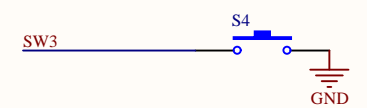
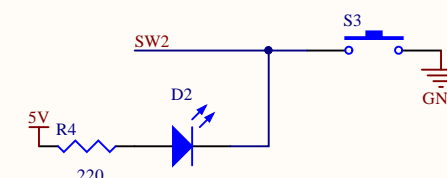
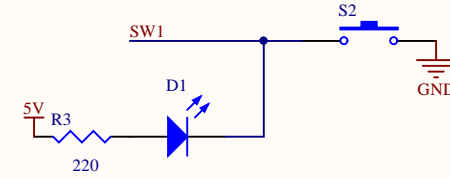
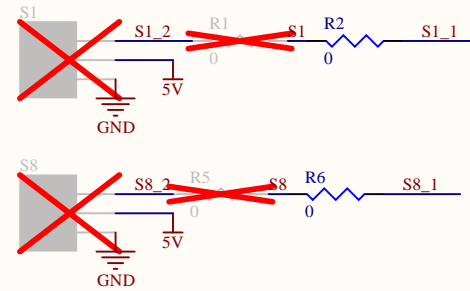


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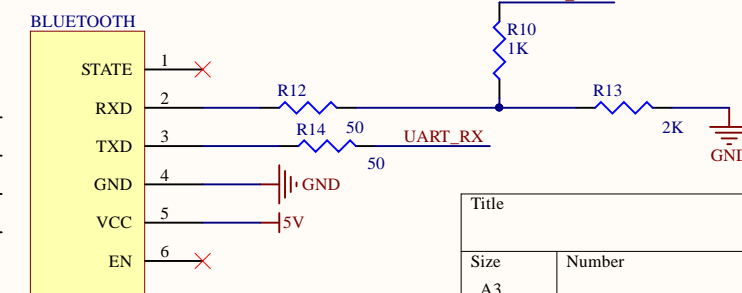
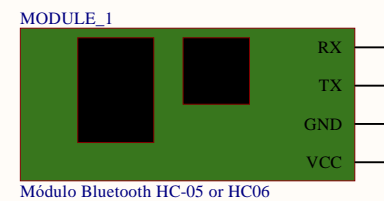




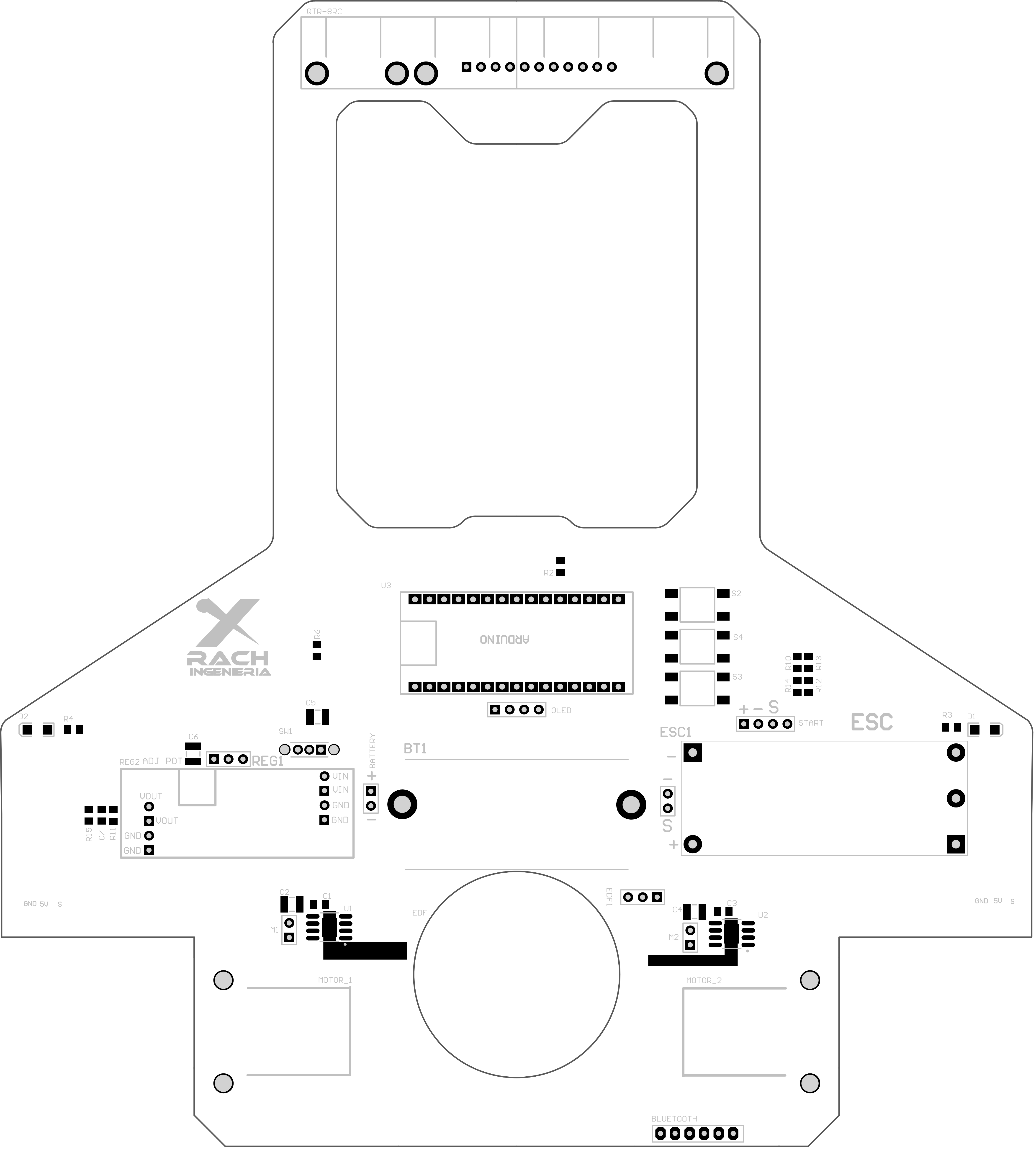
RACHINGENIERIA_VELOCISTA_X.PrjPcb
NOTA: LOS ELEMENTOS CON CRUZ NO SE INSTALAN



SOLO PARA BASICO (NO AVANZADO)
PONER CABLE ENTRE ENTRADA Y SALIDA
CUANDO NO TIENE ELEVADOR

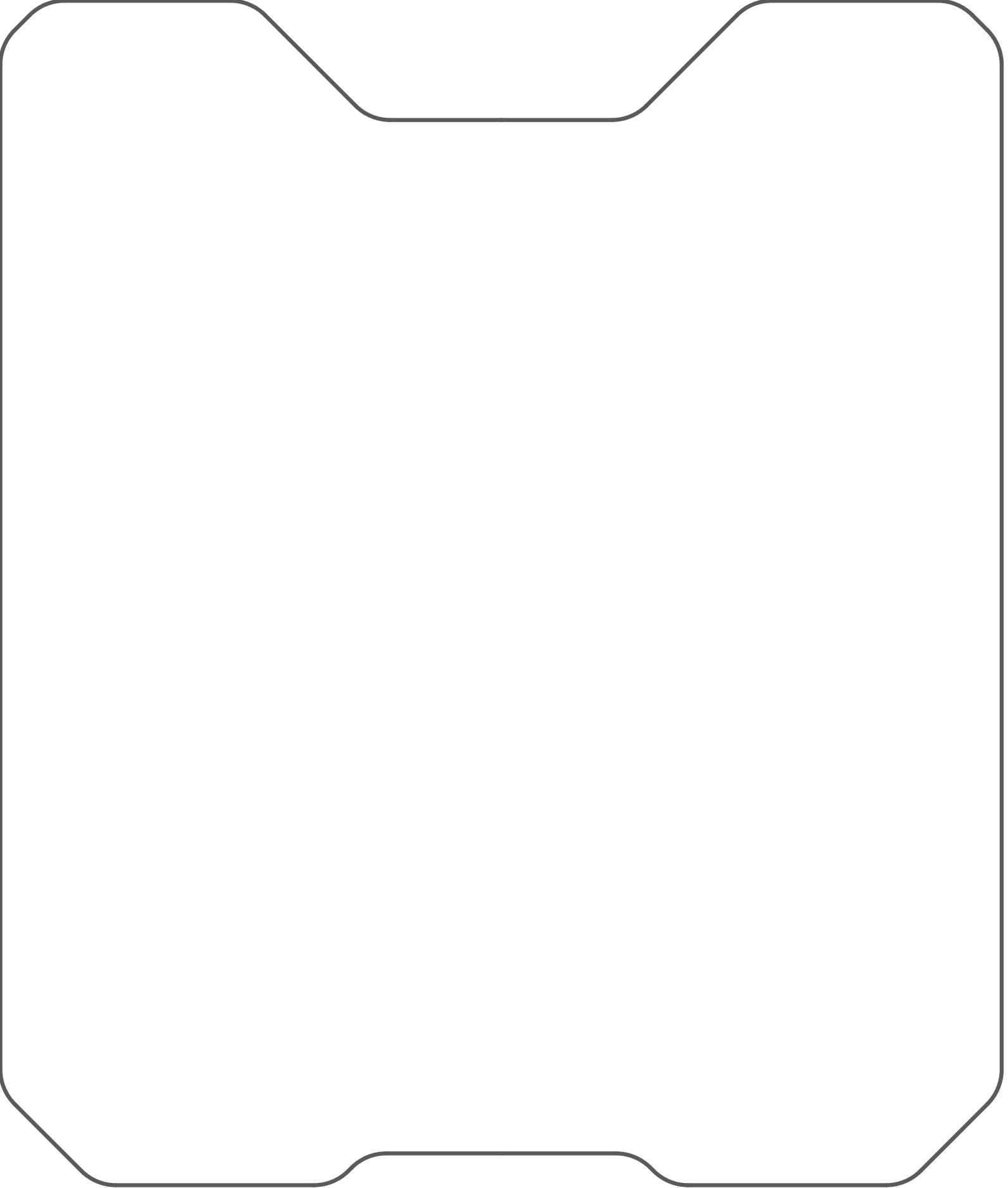


Title			
Size A3	Number		Revision
Date:	11/4/2019	Sheet	of
File:	F:\RACH\...\ARDUINORACHX.SchDoc Drawn By:		



QTR-8RC

QTR-8RC sensor module with 8 pins.



U3

ARDUINO

Arduino Uno microcontroller board.

R2

OLED

OLED display module.

S2

S4

S3

Three push buttons.

R14 R10

R12 R13

Four resistors.

START

Start button.

ESC

R3

D1

Resistor and diode.

D2

R4

Diode and resistor.

REG2 ADJ POT

C6

REG1

VOUT

VOUT

GND

GND

Regulator and potentiometer section.

BT1

BATTERY

Bluetooth module and battery connection points.

ESC1

ESC1 motor speed controller.

GND 5V S

GND 5V S

C2

C1

M1

U1

Capacitors, motor, and component.

MOTOR_1

MOTOR_1 motor connection points.

EDF1

C4

C3

M2

U2

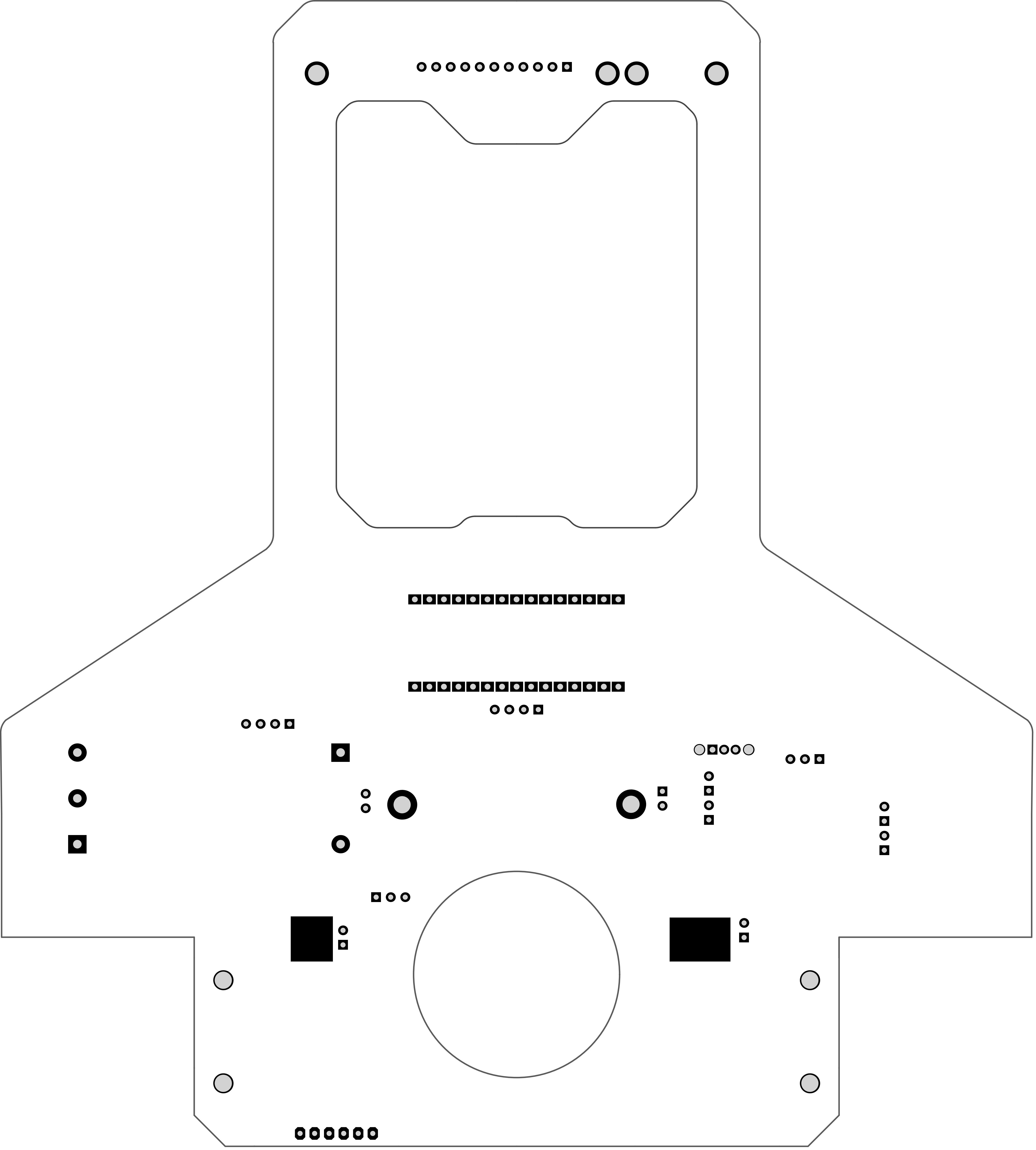
Component, capacitors, motor, and component.

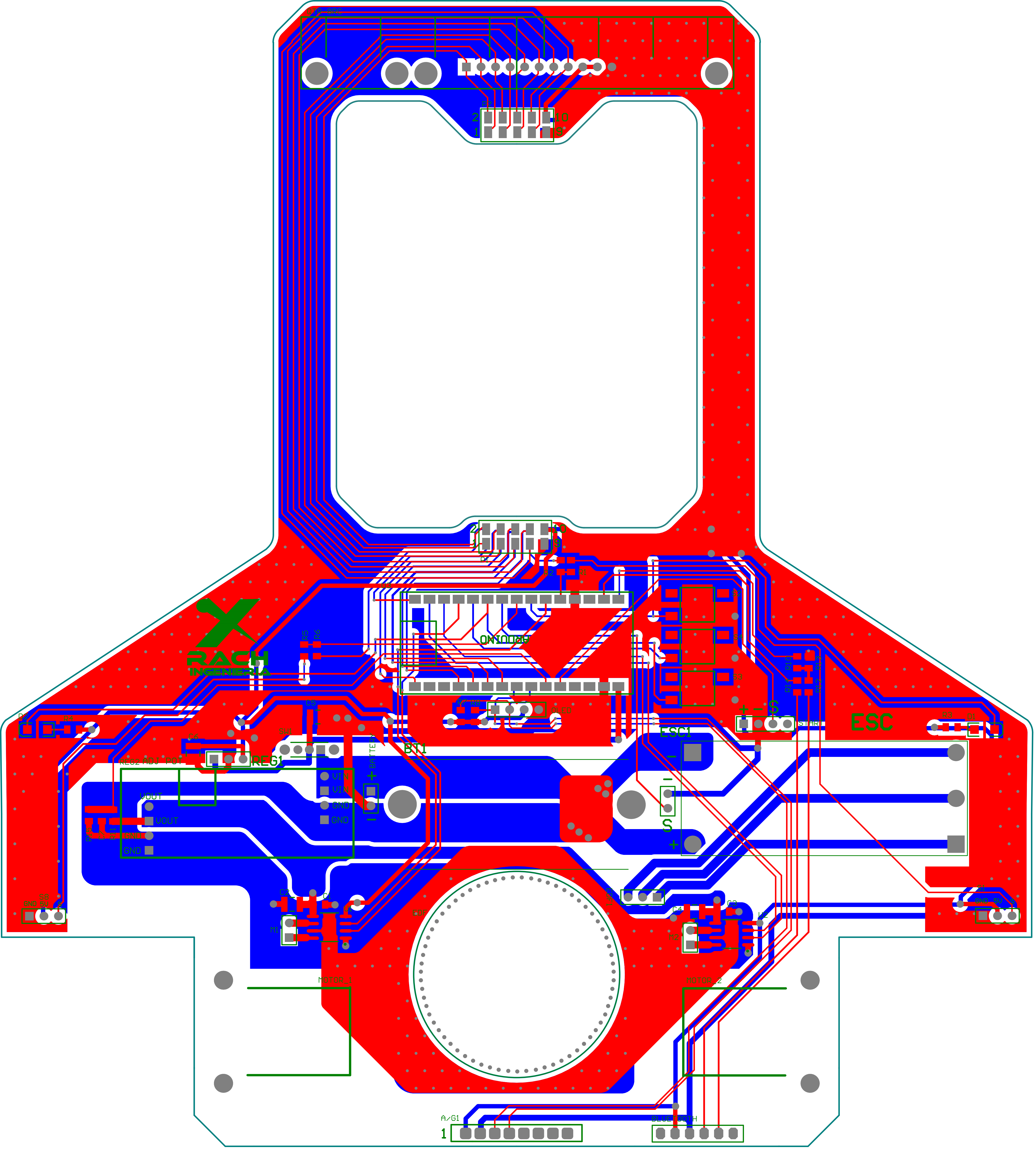
MOTOR_2

MOTOR_2 motor connection points.

BLUETOOTH

Bluetooth module.





Designator	Quantity	Description	Manufacturer
A/G1	1	Header, 8-Pin	
BATTERY	1	CONN HEADER VERT 2POS	Samtec Inc.
BLUETOOTH	1	CONN HDR 6POS 0.1 GOLD PCB	Sullins Connector Solutions
BT1	1	Multicell Battery	JJTRONICS
C1, C3, C7	3	CAP CER 0.1UF 50V X7R 0805	KEMET
C2, C4, C5, C6	4	CAP CER 47UF 25V X5R 1210	Taiyo Yuden
D1, D2	2	LED RED CLEAR 1206 SMD	Visual Communications Company - VCC
EDF	1	EDF35 with 11000kv Motor Assembled	HobbyKing
EDF1, M1, M2, S1, S8	5	Conector EDF, Pines para Motor, Not Part	
ESC1	1	SPEED CONTROLLER	JJTRONICS
MB1	1	Pololu Micro Metal Gearmotor Bracket Pair - Black	POLOLU
MODULE_1	1	Módulo Bluetooth HC-05 or HC06	JJTRONICS
MOTOR_1, MOTOR_2	2	10:1 Micro Metal Gearmotor HPCB 6V	POLOLU
OLED	1	Header, 4-Pin	JJTRONICS
P1, P2	2	Header, 5-Pin, Dual row	
QTR-8RC	1	Header, 11-Pin, Right Angle	JJTRONICS
R1, R2, R5, R6	4	RES SMD 0 OHM 1% 0.4W 0805	Resistencia
R3, R4	2	RES SMD 220 OHM 1% 0.4W 0805	Resistencia
R7, R8, R10	3	RES SMD 1K OHM 0.1% 1/8W 0805	Resistencia
R11	1	RES SMD 100K OHM 0.1% 1/8W 0805	Resistencia
R12, R14	2	RES SMD 50 OHM 0.05% 1/5W 0805	Resistencia
R13	1	RES SMD 2K OHM 0.1% 1/8W 0805	Resistencia
R15	1	RES SMD 10K OHM 1% 0.4W 0805	Resistencia
REG1	1	DC DC CONVERTER 5V OR -5V	CUI Inc.
REG2	1	4.5-20V Fine-Adjust Step-Up Voltage Regulator U3V70A	POLOLU
S2, S3, S4	3	SWITCH TACTILE SPST-NO 0.05A 12V	E-Switch
START	1	Header, 4-Pin	JJTRONICS
SW1	1	Single-Pole, Single-Throw Switch	C&K
TR1, TR2	2	LLANTAS	LLANTAS
U1, U2	2	IC MOTOR DRVR UNIPLR 8SO PWRPAD	Texas Instruments
U3	1	ARDUINO NANO ATMEGA328 EVAL BRD	Arduino